Index to Volume XI, September 1981—May 1982
Journal of College Science Teaching

Author Index

Ackerman, Amy S. *Hocus-Pocus, Imagery in Focus: Implications for Individualized Instruction.* September: 32.

Allen, Robert D. *Intellectual Development and the Understanding of Science: Application of William Perry's Theory to Science Teaching.* November: 94.

Allen, Robert D., and Michael Moll. *Student and Graduate Teaching Assistant Response to Investigative Laboratories.* February: 219.

Aldridge, Bill G. *How About Setting a Good Example?* February: 207. (Editorial) *NSTA Restoration: Building for the Future.* March: 304.

Altman, Howard B. *Individualized Instruction and "Back to Basics": Reconciling Paradoxes.* September: 20.

Awbrey, Frank T., and William M. Thwaites. *A Classroom Response to "Scientific Creationism" at San Diego State University.* March: 277.

Aylward, G. H., P. M. Callaghan, and M.E.H. Howden. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Barnard, Walther M., and Timothy J. Bender. *Land Application of Wastewater Sludges: A National Science Foundation Student-Originated Studies Project.* November: 107.

Bender, Timothy J., and Walther M. Barnard. *Land Application of Wastewater Sludges: A National Science Foundation Student-Originated Studies Project.* November: 107.

Berliner, Hans J. *What We Have Learned from Computer Games.* February: 239.

Berry, Keith, and Dorothy Lee. *"Readability" and the Choice of Textbooks.* January: 152.

Blaustein, Ernest H., Contributing Editor, *Books.* September: 56; November: 124; January: 186; February: 256; March: 316; May: 377.

Callaghan, P. M., G. H. Aylward, and M.E.H. Howden. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Callery, Michael L., and Helen G. Koritz. *Lab Biology for the Nonmajor: Access, Activity, Analysis.* February: 225.

Cid-Campos, Raul, and Mark St. John. *The Inner Workings of PSI: A Case Study of an Introductory College Physics Course.* February: 212.

Cory, Walter. *A Comprehensive Bibliography on Scientific and Technical Writing.* May: 351.

Couch, Richard, and Duane Thurman. *Undergraduate Research at Oral Roberts University.* November: 113.

Darknell, Frank A. *Collaboration with Industry in the California State Colleges.* May: 358.

Dolphin, Warren D. *The Need for Research in Individualized Instruction.* September: 30.

Doyle, R. J., Don des S. Thomas, Joseph E. Habowsky, and Emanuel C. Hertzler. *What Is Individualized Instruction? Where is It Going?* September: 10.

Druger, Marvin, Contributing Editor, *Society for College Science Teachers.* September: 52; November: 118; January: 180; February: 254; March: 322; May: 384.

Dubeck, Leroy W. *Science and Science Fiction Films.* November: 111.

Dykstra, Dewey I., Jr., and John I. Gelder. *Cross-Disciplinary Course in Teaching for GTAs.* May: 347.

Dymally, Mervyn M. *Preserving Subjectivity in Science: Some Thoughts on Changing National Science Policy.* May: 371. (National & Legislative View)

Fee, Elizabeth. *Is Feminism a Threat to Scientific Objectivity?* November: 84.

Fleishman, Ruth. *Majors and Nonmajors, Happy Together.* February: 237.

Foltz, Charles B., and George C. Hartmann. *Demonstration of Cellular Organelles Using a Teflon Slide Culture Chamber.* March: 301.

Gelder, John I., and Dewey I. Dykstra, Jr. *Cross-Disciplinary Course in Teaching for GTAs.* May: 347.

Gelderloos, Orin G., and Linda K. Jones. *Implementation and Evaluation of Mastery Learning Modules in Chemistry, Biology, and Physics.* March: 283.

Glass, Bentley. *A New Crisis in the Teaching of Evolution.* March: 269. (Editorial)

Golmon, Melton E. *An Immediate Feedback Testing Technique.* January: 173.

Graham, James F., and Leslie S. Perry. *Open Lab for General Chemistry.* February: 227.

Greenburg, S. L., and J. V. Mallow. *Science Anxiety: Causes and Remedies.* May: 356.

Grunewald, Ralph, and Angela M. Sauro. *The Use of a Self-Instructional Technology Assessment Module as a Teaching Tool.* January: 157.

Habowsky, Joseph E., Don des S. Thomas, R. J. Doyle, and Emanuel C. Hertzler. *What Is Individualized Instruction? Where Is It Going.* September: 10.

Hammond, Roger A., and D. Keith Roach. *Individualized Instruction in Great Britain: A Survey and a Case Study.* September: 25.

Hartmann, George C., and Charles B. Foltz. *Demonstration of Cellular Organelles Using a Teflon Slide Culture Chamber.* March: 301.

Hayes, Janan M., and Reba L. Keele. *The Use of Data Collection to Generate Change: A Model for Science Curriculum Revision in the Community College.* February: 233.

Hedeen, Stanley E. *The Ascent of Man in the Classroom.* February: 242.

Hepner, George F., and Thomas W. Hodler. *The Role of Interactive Computer Mapping in the Science Curriculum.* May: 367.

Hertzler, Emanuel C. *The Honors Symposium for Founders of Individualized Instruction.* September: 35.

Hertzler, Emanuel C., Don des S. Thomas, Joseph E. Habowsky, and R. J. Doyle. *What Is Individualized Instruction? Where Is It Going?* September: 10.

Hodler, Thomas W., and George F. Hepner. *The Role of Interactive Computer Mapping in the Science Curriculum.* May: 367.

Hoffman, Björn. *Individualized Instruction at German Universities.* September: 12.

Howden, M.E.H., G. H. Aylward, and P. M. Callaghan. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Howe, Christine Z., and Jean L. Perry. *Evaluation of a Variable-Credit, Self-Paced, Introductory-Level, College Physiology Course.* November: 101.

Howes, Ruth, and James Watson, Jr. *Science and Pseudoscience: A Course for the Citizen of the Twenty-First Century.* November: 104.

Hurd, Paul DeHart. "The Science Laboratory: A Teaching Perspective." January: 146. (NSTA Laboratory Position Statement)

Jacobel, Robert W. *The Premed Syndrome.* November: 81. (Point of View)

Jones, Linda K., and Orin G. Gelderloos. *Implementation and Evaluation of Mastery Learning Modules in Chemistry, Biology, and Physics.* March: 283.

Jones, Martin B., and Peter Kovacic. *The Opening Chemistry Lecture: Reaching Students Without Demonstrations.* May: 365.

Kahle, Jane Butler. "The Science Laboratory: A Research Perspective." January: 146. (NSTA Laboratory Position Statement)

Kauffman, George B., Contributing Editor, *Abstracts.* September: 53; November: 119; January: 183; February: 251; March: 312; May: 373. *Multifaceted Contributions of Chemistry to History.* May: 341.

Keele, Reba L., and Janan M. Hayes. *The Use of Data Collection to Generate Change: A Model for Science Curriculum Revision in the Community College.* February: 233.

Keller, Fred S. *PSI and Educational Reform.* September: 37.

Klein, Sarah E., Donald W. McCurdy, and Robert E. Yager. *The Central Role of Laboratory Experiences in College Science Instruction.* January: 146. (NSTA Laboratory Position Statement)

Koritz, Helen G., and Michael L. Callery. *Lab Biology for the Nonmajor: Access, Activity, Analysis.* February: 225.

Kormondy, Edward J. *Are We Risking a Cultural Revolution?* September: 50. (National & Legislative View)

Kovacic, Peter, and Martin B. Jones. *The Opening Chemistry Lecture: Reaching Students Without Demonstrations.* May: 365.

Kurtz, Thomas E. *Individualized Instruction—Yesterday, Today, Tomorrow.* September: 36.

Kyle, William C., Jr., and John E. Penick. *Societal and Educational Applications of Biological Concepts.* March: 302.

Lee, Dorothy, and Keith Berry. *"Readability" and the Choice of Textbooks.* January: 152.

Lehman, James D. *The Creation/Evolution Debate: Is Science Education Failing?* March: 280.

Lestingi, Francis S., Contributing Editor, *Instructional Media.* September: 62; November: 131; January: 195; February: 249; March: 320; May: 382.

Lipson, Joseph I. *Experience with Individualized Instruction.* September: 42.

Mallow, J. V., and S. L. Greenburg. *Science Anxiety: Causes and Remedies.* May: 356.

Mayer, William V. *Evolutionary Theory vs. Creationist Doctrine.* March: 270.

McCurdy, Donald W. *The Need for Political Action.* May: 335. (Editorial)

McCurdy, Donald W., Sarah E. Klein, and Robert E. Yager. *The Central Role of Laboratory Experiences in College Science Instruction.* January: 146. (NSTA Laboratory Position Statement)

McMeekin, Dorothy. *A Simple Controlled Experiment for Large Classes.* January: 170.

Meloan, Clifton E. *Financial Exigency and the "Good Old Prof."* January: 148. (Point of View)

Menefee, Robert W. *National Science Foundation Support of Individualized Instruction.* September: 39.

Moll, Michael, and Robert D. Allen. *Student and Graduate Teaching Assistant Response to Investigative Laboratories.* February: 219.

Moran, Joseph M., and Ronald D. Stieglitz. *A Conceptual Framework for Teaching Glacial Geology.* February: 223.

Index to Volume XI, September 1981—May 1982
Journal of College Science Teaching

Author Index

Ackerman, Amy S. *Hocus-Pocus, Imagery in Focus: Implications for Individualized Instruction.* September: 32.

Allen, Robert D. *Intellectual Development and the Understanding of Science: Application of William Perry's Theory to Science Teaching.* November: 94.

Allen, Robert D., and Michael Moll. *Student and Graduate Teaching Assistant Response to Investigative Laboratories.* February: 219.

Aldridge, Bill G. *How About Setting a Good Example?* February: 207. (Editorial) *NSTA Restoration: Building for the Future.* March: 304.

Altman, Howard B. *Individualized Instruction and "Back to Basics": Reconciling Paradoxes.* September: 20.

Awbrey, Frank T., and William M. Thwaites. *A Classroom Response to "Scientific Creationism" at San Diego State University.* March: 277.

Aylward, G. H., P. M. Callaghan, and M.E.H. Howden. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Barnard, Walther M., and Timothy J. Bender. *Land Application of Wastewater Sludges: A National Science Foundation Student-Originated Studies Project.* November: 107.

Bender, Timothy J., and Walther M. Barnard. *Land Application of Wastewater Sludges: A National Science Foundation Student-Originated Studies Project.* November: 107.

Berliner, Hans J. *What We Have Learned from Computer Games.* February: 239.

Berry, Keith, and Dorothy Lee. *"Readability" and the Choice of Textbooks.* January: 152.

Blaustein, Ernest H., Contributing Editor, *Books.* September: 56; November: 124; January: 186; February: 256; March: 316; May: 377.

Callaghan, P. M., G. H. Aylward, and M.E.H. Howden. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Callery, Michael L., and Helen G. Koritz. *Lab Biology for the Nonmajor: Access, Activity, Analysis.* February: 225.

Cid-Campos, Raul, and Mark St. John. *The Inner Workings of PSI: A Case Study of an Introductory College Physics Course.* February: 212.

Cory, Walter. *A Comprehensive Bibliography on Scientific and Technical Writing.* May: 351.

Couch, Richard, and Duane Thurman. *Undergraduate Research at Oral Roberts University.* November: 113.

Darknell, Frank A. *Collaboration with Industry in the California State Colleges.* May: 358.

Dolphin, Warren D. *The Need for Research in Individualized Instruction.* September: 30.

Doyle, R. J., Don des S. Thomas, Joseph E. Habowsky, and Emanuel C. Hertzler. *What Is Individualized Instruction? Where is It Going?* September: 10.

Druger, Marvin, Contributing Editor, *Society for College Science Teachers.* September: 52; November: 118; January: 180; February: 254; March: 322; May: 384.

Dubeck, Leroy W. *Science and Science Fiction Films.* November: 111.

Dykstra, Dewey I., Jr., and John I. Gelder. *Cross-Disciplinary Course in Teaching for GTAs.* May: 347.

Dymally, Mervyn M. *Preserving Subjectivity in Science: Some Thoughts on Changing National Science Policy.* May: 371. (National & Legislative View)

Fee, Elizabeth. *Is Feminism a Threat to Scientific Objectivity?* November: 84.

Fleishman, Ruth. *Majors and Nonmajors, Happy Together.* February: 237.

Foltz, Charles B., and George C. Hartmann. *Demonstration of Cellular Organelles Using a Teflon Slide Culture Chamber.* March: 301.

Gelder, John I., and Dewey I. Dykstra, Jr. *Cross-Disciplinary Course in Teaching for GTAs.* May: 347.

Gelderloos, Orin G., and Linda K. Jones. *Implementation and Evaluation of Mastery Learning Modules in Chemistry, Biology, and Physics.* March: 283.

Glass, Bentley. *A New Crisis in the Teaching of Evolution.* March: 269. (Editorial)

Golmon, Melton E. *An Immediate Feedback Testing Technique.* January: 173.

Graham, James F., and Leslie S. Perry. *Open Lab for General Chemistry.* February: 227.

Greenburg, S. L., and J. V. Mallow. *Science Anxiety: Causes and Remedies.* May: 356.

Grunewald, Ralph, and Angela M. Sauro. *The Use of a Self-Instructional Technology Assessment Module as a Teaching Tool.* January: 157.

Habowsky, Joseph E., Don des S. Thomas, R. J. Doyle, and Emanuel C. Hertzler. *What Is Individualized Instruction? Where Is It Going.* September: 10.

Hammond, Roger A., and D. Keith Roach. *Individualized Instruction in Great Britain: A Survey and a Case Study.* September: 25.

Hartmann, George C., and Charles B. Foltz. *Demonstration of Cellular Organelles Using a Teflon Slide Culture Chamber.* March: 301.

Hayes, Janan M., and Reba L. Keele. *The Use of Data Collection to Generate Change: A Model for Science Curriculum Revision in the Community College.* February: 233.

Hedeen, Stanley E. *The Ascent of Man in the Classroom.* February: 242.

Hepner, George F., and Thomas W. Hodler. *The Role of Interactive Computer Mapping in the Science Curriculum.* May: 367.

Hertzler, Emanuel C. *The Honors Symposium for Founders of Individualized Instruction.* September: 35.

Hertzler, Emanuel C., Don des S. Thomas, Joseph E. Habowsky, and R. J. Doyle. *What Is Individualized Instruction? Where Is It Going?* September: 10.

Hodler, Thomas W., and George F. Hepner. *The Role of Interactive Computer Mapping in the Science Curriculum.* May: 367.

Hoffman, Björn. *Individualized Instruction at German Universities.* September: 12.

Howden, M.E.H., G. H. Aylward, and P. M. Callaghan. *Analytical Chemistry, Relevance, and Literature.* March: 293.

Howe, Christine Z., and Jean L. Perry. *Evaluation of a Variable-Credit, Self-Paced, Introductory-Level, College Physiology Course.* November: 101.

Howes, Ruth, and James Watson, Jr. *Science and Pseudoscience: A Course for the Citizen of the Twenty-First Century.* November: 104.

Hurd, Paul DeHart. "The Science Laboratory: A Teaching Perspective." January: 146. (NSTA Laboratory Position Statement)

Jacobel, Robert W. *The Premed Syndrome.* November: 81. (Point of View)

Jones, Linda K., and Orin G. Gelderloos. *Implementation and Evaluation of Mastery Learning Modules in Chemistry, Biology, and Physics.* March: 283.

Jones, Martin B., and Peter Kovacic. *The Opening Chemistry Lecture: Reaching Students Without Demonstrations.* May: 365.

Kahle, Jane Butler. "The Science Laboratory: A Research Perspective." January: 146. (NSTA Laboratory Position Statement)

Kauffman, George B., Contributing Editor, *Abstracts.* September: 53; November: 119; January: 183; February: 251; March: 312; May: 373. *Multifaceted Contributions of Chemistry to History.* May: 341.

Keele, Reba L., and Janan M. Hayes. *The Use of Data Collection to Generate Change: A Model for Science Curriculum Revision in the Community College.* February: 233.

Keller, Fred S. *PSI and Educational Reform.* September: 37.

Klein, Sarah E., Donald W. McCurdy, and Robert E. Yager. *The Central Role of Laboratory Experiences in College Science Instruction.* January: 146. (NSTA Laboratory Position Statement)

Koritz, Helen G., and Michael L. Callery. *Lab Biology for the Nonmajor: Access, Activity, Analysis.* February: 225.

Kormondy, Edward J. *Are We Risking a Cultural Revolution?* September: 50. (National & Legislative View)

Kovacic, Peter, and Martin B. Jones. *The Opening Chemistry Lecture: Reaching Students Without Demonstrations.* May: 365.

Kurtz, Thomas E. *Individualized Instruction—Yesterday, Today, Tomorrow.* September: 36.

Kyle, William C., Jr., and John E. Penick. *Societal and Educational Applications of Biological Concepts.* March: 302.

Lee, Dorothy, and Keith Berry. *"Readability" and the Choice of Textbooks.* January: 152.

Lehman, James D. *The Creation/Evolution Debate: Is Science Education Failing?* March: 280.

Lestingi, Francis S., Contributing Editor, *Instructional Media.* September: 62; November: 131; January: 195; February: 249; March: 320; May: 382.

Lipson, Joseph I. *Experience with Individualized Instruction.* September: 42.

Mallow, J. V., and S. L. Greenburg. *Science Anxiety: Causes and Remedies.* May: 356.

Mayer, William V. *Evolutionary Theory vs. Creationist Doctrine.* March: 270.

McCurdy, Donald W. *The Need for Political Action.* May: 335. (Editorial)

McCurdy, Donald W., Sarah E. Klein, and Robert E. Yager. *The Central Role of Laboratory Experiences in College Science Instruction.* January: 146. (NSTA Laboratory Position Statement)

McMeekin, Dorothy. *A Simple Controlled Experiment for Large Classes.* January: 170.

Meloan, Clifton E. *Financial Exigency and the "Good Old Prof."* January: 148. (Point of View)

Menefee, Robert W. *National Science Foundation Support of Individualized Instruction.* September: 39.

Moll, Michael, and Robert D. Allen. *Student and Graduate Teaching Assistant Response to Investigative Laboratories.* February: 219.

Moran, Joseph M., and Ronald D. Stieglitz. *A Conceptual Framework for Teaching Glacial Geology.* February: 223.

Moriarty, Richard W. *Emergency Response System for Industry*. January: 165.
National Research Council, The Commission on Human Resources' Committee for a Study of the Federal Role in College Science Education for Non-Specialists. *A Study of the Federal Role in the College Science Education of the Non-specialists*. March: 310. (National & Legislative View)
National Science Foundation. *NSF-CAUSE Program Evaluated*. February: 245. (National & Legislative View)
Paldy, Lester G., Contributing Editor, *National & Legislative View. National Science Board Statements on Science Education*. (Introduction) January: 181. *A New Season and an Editor's Pleasure*. September: 5. (Editorial) *National Science Foundation 1982 Budget for Science and Engineering Education*. November: 77. (Editorial)
Parker, Judith E. *Visiting Women Scientists Program*. May: 363.
Penick, John E., and William C. Kyle, Jr. *Societal and Educational Applications of Biological Concepts*. March: 302.
Perry, Jean L., and Christine Z. Howe. *Evaluation of a Variable-Credit, Self-Paced, Introductory-Level, College Physiology Course*. November: 101.
Perry, Leslie S., and James F. Graham. *Open Lab for General Chemistry*. February: 227.
Pickering, Miles. "The Need for Reform in Undergraduate Laboratory Courses: A Curriculum Issue." January: 146. (NSTA Laboratory Position Statement) *Are Lab Courses a Waste of Time?* February: 210. (Point of View)
Poduska, Ervin. *"Energy Today" for Energy Tomorrow*. January: 175.
Poitras, Adrian W., Contributing Editor, *Equipment & New Products*. September: 60; November: 128; January: 192; February: 260; March: 323; May: 385.
Postlethwait, Samuel N. *A Basis for Instructional Alternatives*. September: 44.
Reynolds, George T. *University Response to Interdisciplinary Research*. March: 296.
Rissler, Jane F. and Margaret A. Waterman. *Use of Scientific Research Reports to Develop Higher-Level Cognitive Skills*. May: 336.
Roach, Keith, and Roger A. Hammond. *Individualized Instruction in Great Britain: A Survey and a Case Study*. September: 25.
Rutherford, F. James. *The National Science Foundation and Individualized Instruction in the '80s*. September: 15.
S. Thomas, Don des, Joseph E. Habowsky, R. J. Doyle, and Emanuel C. Hertzler. *What Is Individualized Instruction? Where Is It Going?* September: 10.
St. John, Mark, and Raul Cid-Campos. *The Inner Workings of PSI: A Case Study of an Introductory College Physics Course*. February: 212.
Sauro, Angela M., and Ralph Grunewald. *The Use of a Self-Instructional Technology Assessment Module as a Teaching Tool*. January: 157.
Scott, Jerry. *Developing an Undergraduate Computer Degree*. February: 230.
Sell, Nancy J. *Teaching About Technology—The Science and Value Issues*. January: 160.
Shull, Harrison. *A Study of the Federal Role in the College Science Education of the Non-specialists*. (Introduction) March: 310. (National & Legislative View)
Shymansky, James A. "Are Laboratories Really That Expensive?" January: 146. (NSTA Laboratory Position Statement)
Slaughter, John B. *National Science Board Statements on Science Education*. January: 181. (National & Legislative View)
Snyder, John A. *Teaching Enzymology with a Simple and Inexpensive Lysozyme Assay*. November: 98.
Stieglitz, Ronald D., and Joseph M. Moran. *A Conceptual Framework for Teaching Glacial Geology*. February: 223.
Straka, William C. *The NASA-ASEE Summer Program*. November: 117. (National & Legislative View)
Tenney, Agnes. *Understanding Partial Differentiation in Physical Chemistry: An Apple Microcomputer-Based Study*. May 369.
Thurman, Duane, and Richard Couch. *Undergraduate Research at Oral Roberts University*. November: 113.
Thwaites, William M., and Frank T. Awbrey. *A Classroom Response to "Scientific Creationism" at San Diego State University*. March: 277.
Touger, Jerold S. *Developing a Core Science Course for a Liberal Arts Curriculum*. March: 289.
Tyler, Ralph W. *Reflections on Independent Individualized Instruction*. September: 46.
Voss, Burton E. "Role of the Laboratory in College Science." January: 146. (NSTA Laboratory Position Statement)
Wales, Charles E. *Teaching "Process" with Guided Design*. September: 48.
Wallace, William J. *A Water Course*. March: 299.
Waterman, Margaret A., and Jane F. Rissler. *Use of Scientific Research Reports to Develop Higher-Level Cognitive Skills*. May: 336.
Watson, James, Jr., and Ruth Howes. *Science and Pseudoscience: A Course for the Citizen of the Twenty-First Century*. November: 104.
Whitaker, Robert J. *Mini-Physics and the History of Science*. January: 168.
Yager, Robert E. *Priorities for Improving Science Education in the United States*. January: 141. (Editorial)
Yager, Robert E., Sarah E. Klein, and Donald W. McCurdy. *The Central Role of Laboratory Experiences in College Science Instruction*. January: 146. (NSTA Laboratory Position Statement)

Title Index

About NSTA. September: 3; November: 74; January: 138; February: 202; March: 266; May: 330.
Abstracts. (See Kauffman, George B.)
Analytical Chemistry, Relevance, and Literature. G. H. Aylward, P. M. Callaghan, and M.E.H. Howden. March: 293.
The Ascent of Man in the Classroom. Stanley E. Hedeen. February: 242.
A Basis for Instructional Alternatives. Samuel N. Postlethwait. September: 44.
Books. (See Blaustein, Ernest H.)
A Classroom Response to "Scientific Creationism" at San Diego State University. William M. Thwaites and Frank T. Awbrey. March: 277.
Collaboration with Industry in the California State Colleges. Frank A. Darknell. May: 358.
A Comprehensive Bibliography on Scientific and Technical Writing. Walter Cory. May: 351.
A Conceptual Framework for Teaching Glacial Geology. Joseph M. Moran and Ronald D. Stieglitz. February: 223.
Creation/Evolution Debate: Is Science Education Failing? James D. Lehman. March: 280.
Cross-Disciplinary Course in Teaching for GTAs. Dewey I. Dykstra, Jr., and John I. Gelder. May: 347.
Demonstration of Cellular Organelles Using a Teflon Slide Culture Chamber. Charles B. Foltz and George C. Hartmann. March: 301.
Developing a Core Science Course for a Liberal Arts Curriculum. Jerold S. Touger. March: 289.
Developing an Undergraduate Computer Degree. Jerry Scott. February: 230.
Editorial. (See Paldy, Lester G., September and November; Yager, Robert E., January; Aldridge, Bill G., February; Glass, Bentley, March; McCurdy, Donald W., May.)
Emergency Response System for Industry. Richard W. Moriarty. January: 165.
"Energy Today" for Energy Tomorrow. Ervin Poduska. January: 175.
Equipment & New Products. (See Poitras, Adrian W.)
Evaluation of a Variable-Credit, Self-Paced, Introductory-Level, College Physiology Course. Jean L. Perry and Christine Z. Howe. November: 101.
Evolutionary Theory vs. Creationist Doctrine. William V. Mayer. March: 270.
Experience with Individualized Instruction. Joseph I. Lipson. September: 42.
Hocus-Pocus, Imagery in Focus: Implications for Individualized Instruction. Amy S. Ackerman. September: 32.
The Honors Symposium for Founders of Individualized Instruction. Emanuel C. Hertzler. September: 35.
An Immediate Feedback Testing Technique. Melton E. Golmon. January: 173.
Implementation and Evaluation of Mastery Learning Modules in Chemistry, Biology, and Physics. Orin G. Gelderloos and Linda K. Jones. March: 283.
In Brief. September: 6; November: 78; January: 144; February: 208; March: 268; May: 333.
Individualized Instruction and "Back to Basics": Reconciling Paradoxes. Howard B. Altman. September: 20.
Individualized Instruction at German Universities. Björn Hoffman. September: 12.
Individualized Instruction in Great Britain: A Survey and a Case Study. Roger A. Hammond and D. Keith Roach. September: 25.
Individualized Instruction—Yesterday, Today, Tomorrow. Thomas E. Kurtz. September: 36.
The Inner Workings of PSI: A Case Study of an Introductory College Physics Course. Raul Cid-Campos and Mark St. John. February: 212.
Instructional Media. (See Lestingi, Francis S.)
Intellectual Development and the Understanding of Science: Application of William Perry's Theory to Science Teaching. Robert D. Allen. November: 94.
Is Feminism a Threat to Scientific Objectivity? Elizabeth Fee. November: 84.
Lab Biology for the Nonmajor: Access, Activity, Analysis. Michael L. Callery and Helen G. Koritz. February: 225.
Land Application of Wastewater Sludges: A National Science Foundation Student-Originated Studies Project. Walther M. Barnard and Timothy J. Bender. November: 107.
Majors and Nonmajors, Happy Together. Ruth Fleishman. February: 237.
Mini-Physics and the History of Science. Robert J. Whitaker. January: 168.
Multifaceted Contributions of Chemistry to History. George B. Kauffman. May: 341.
National & Legislative View. (See Kormondy, Edward J., September; Straka, William C., November; Slaughter, John B., January; National Science Foundation, February; Shull, Harrison, and National Research Council, March; Dymally, Mervyn M., May.)
The National Science Foundation and Individualized Instruction in the '80s. F. James Rutherford. September: 15.
National Science Foundation Support of Individualized Instruction. Robert W. Menefee. September: 39.
NSTA Laboratory Position Statement. Sarah E. Klein, Donald W. McCurdy, and Robert E. Yager. (See also, Hurd, Paul DeHart; Kahle, Jane Butler; Pick-

continued on next page

continued from previous page

ering, Miles; Shymansky, James A.; and Voss, Burton E.) January: 146.
NSTA Restoration: Building for the Future. Bill G. Aldridge. March: 304.
The Need for Research in Individualized Instruction. Warren D. Dolphin. September: 30.
Open Lab for General Chemistry. James F. Graham and Leslie S. Perry. February: 227.
The Opening Chemistry Lecture: Reaching Students Without Demonstrations. Peter Kovacic and Martin B. Jones. May: 365.
Point of View. *The Premed Syndrome.* Robert W. Jacobel. November: 81. *Financial Exigency and the "Good Old Prof."* Clifton E. Meloan. January: 148. *Are Lab Courses a Waste of Time?* Miles Pickering. February: 210.
PSI and Educational Reform. Fred S. Keller. September: 37.
"Readability" and the Choice of Textbooks. Keith Berry and Dorothy Lee. January: 152.
Reflections on Independent Individualized Instruction. Ralph W. Tyler. September: 46.
The Role of Interactive Computer Mapping in the Science Curriculum. George F. Hepner and Thomas W. Hodler. May: 367.
Science and Pseudoscience: A Course for the Citizen of the Twenty-First Century. Ruth Howes and James Watson, Jr. November: 104.
Science and Science Fiction Films. Leroy W. Dubeck. November: 111.
Science Anxiety: Causes and Remedies. J. V. Mallow and S. L. Greenburg. May: 356.
A Simple Controlled Experiment for Large Classes. Dorothy McMeekin. January: 170.
Societal and Educational Applications of Biological Concepts. John E. Penick and William C. Kyle. March: 302.
Society for College Science Teachers. (See Druger, Marvin.)
Student and Graduate Teaching Assistant Response to Investigative Laboratories. Michael Moll and Robert D. Allen. February: 219.
Teaching About Technology—The Science and Value Issues. Nancy J. Sell. January: 160.
Teaching Enzymology with a Simple and Inexpensive Lysozyme Assay. John A. Snyder. November: 98.
Teaching "Process" with Guided Design. Charles E. Wales. September: 48.
Undergraduate Research at Oral Roberts University. Duane Thurman and Richard Couch. November: 113.
Understanding Partial Differentiation in Physical Chemistry: An Apple Microcomputer-Based Study. Agnes Tenney. May: 369.
University Response to Interdisciplinary Research. George T. Reynolds. March: 296.
The Use of Data Collection to Generate Change: A Model for Science Curriculum Revision in the Community College. Reba L. Keele and Janan M. Hayes. February: 233.
Use of Scientific Research Reports to Develop Higher-Level Cognitive Skills. Jane F. Rissler and Margaret A. Waterman. May: 336.
The Use of a Self-Instructional Technology Assessment Module as a Teaching Tool. Angela M. Sauro and Ralph Grunewald. January: 157.
Visiting Women Scientists Program. Judith E. Parker. May: 363.
A Water Course. William J. Wallace. March: 299.
What Is Individualized Instruction? Where Is It Going? Don des S. Thomas, Joseph E. Habowsky, R. J. Doyle, and Emanuel C. Hertzler. September: 10.
What We Have Learned from Computer Games. Hans J. Berliner. February: 239.

Calendar

May

31–June 4 **American Geophysical Union.** Spring Meeting. Philadelphia. AGU, 2000 Florida Ave., NW, Washington, DC 20009.

June

4–5 **Teachers of Introductory College Sciences.** 10th Annual Conference. Alfred University. Dr. Bradley Bowden or Dr. Peter Finlay, Div of Biological Sciences, Alfred University, Alfred, NY 14802.

7–11 **Association for the Development of Computer-Based Instructional Systems.** Annual Conference. Vancouver, B.C., Canada. Gordon Hayes, Executive Secretary, ADCIS, Bond Hall, Western Washington University, Bellingham, WA 98225.

16–18 **American Chemical Society—Midland Section.** Workshop for Chemical Educators—High School and College. Midland, MI. Marion Whittaker, Delta College, University Center, MI 48710.

July

4–10 **The Hastings Center.** Workshop on Applied and Professional Ethics. Colorado College, Colorado Springs, CO. The Hastings Center, 360 Broadway, Hastings-on-Hudson, NY 10706.

August

8–13 **American Association for Clinical Chemistry.** Annual Meeting. Anaheim, CA. AACC Meeting Manager, 1725 K St., NW, Suite 903/4, Washington, DC 20006.

15–21 **California Association of Chemistry Teachers.** Annual Summer Conference. UC–Santa Cruz. Jeanne M. Carter, 3920 Spring St., Orange, CA 92669.

September

12–17 **American Chemical Society.** 184th National Meeting. Kansas City, MO. A.T. Winstead, ACS, 1155 16th Street, NW, Washington, DC 20036.

October

14–23 **National Association of Biology Teachers.** National Convention. Detroit. Susan Varney Nolan, 11250 Roger Bacon Drive, Reston, VA 22090.

18–21 **Geological Society of America.** Annual Meeting. New Orleans. Jean M. Latulippe, Meetings Department, GSA, P.O. Box 9140, Boulder, CO 80301.

18–22 **Optical Society of America.** Annual Meeting. Tucson. OSA, 1816 Jefferson Place, NW, Washington, DC 20036.

21–23 **NSTA Area Convention.** "Energy, Excellence, Education." Knoxville. William Baird, Computer Science Department, 8 Ayers Hall, University of Tennessee, Knoxville, TN 37916.

27–30 **National Council for Geographic Education.** National Meeting. San Diego. James W. Vining, Executive Director, NCGE, Western Illinois University, Macomb, IL 61455.

November

3–5 **International Congress for Individualized Instruction.** 14th Annual Conference. Purdue University, West Lafayette, IN. Dr. G. Semb, ICII, P.O. Box 1090, Lawrence, KS 66044.

5–7 **Ohio Developmental Education Conference.** "The ABC's of D.E.: Articulation, Burnout & Competencies." Cincinnati. Dr. Tanya Ludutsky, Raymond Walters General & Technical College, 9555 Plainfield Road, Cincinnati, OH 45236. Call for papers deadline June 15.

11–13 **NSTA Area Convention.** "Making New Things Happen—It Starts With You!" Baltimore. Leon Ukens, Physics Department, Towson State University, Baltimore, MD 21204.

11–13 **NSTA Area Convention.** "Science for Society—What and Why," Saskatoon, Saskatchewan. Dave Ferguson, College Park School, 3440 Harrington Street, Saskatoon, Saskatchewan, Canada 57H3Y4.

Index to Advertisers

Academic Book Club 378
American Optical 331
Faller, Klenk & Quinlan, Inc.
Apollo Space Systems 355
Biology Media 379
Edmund Scientific Company 329
Houghton Mifflin Company 381
MMI Corporation 383
Ohaus Scale Corporation ..... Covers II and III
Olympus Corporation of America ..... Cover IV
Kameny Communications, Inc.
Science Books International 380
Swift Instruments, Inc. 375